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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,888	12/04/2003	Douglas Marice Albert	ISC-117	4185
7590 06/17/2005			EXAMINER	
W. Eric Boyd, Esq.			ARBES, CARL J	
Irvine Sensors Corporation Bldg. 3, Suite 108 3001 Redhill Ave. Costa Mesa, CA 92626			ART UNIT	PAPER NUMBER
			3729	
			DATE MAILED: 06/17/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		34			
	Application No.	Applicant(s)			
	10/726,888	ALBERT, DOUGLAS MARICE			
Office Action Summary	Examiner	Art Unit			
	C. J. Arbes	3729			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (5) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by stated any reply received by the Office later than three months after the may be arrived patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a rejepty within the statutory minimum of thirty od will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 04	December 2003.	•			
2a) ☐ This action is FINAL . 2b) ☑ T	This action is FINAL. 2b)⊠ This action is non-final.				
3)☐ Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application	on.				
4a) Of the above daim(s) 7-12 is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.					
6) Claim(s) 1-5 is/are rejected.					
7) Claim(s) 6 is/are objected to.		·			
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers		•			
9)☐ The specification is objected to by the Exami					
10)☐ The drawing(s) filed on is/are: a)☐ a					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the corr					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 	ents have been received.				
Copies of the certified copies of the present	riority documents have been r	eceived in this National Stage			
application from the International Bure	• • • • • • • • • • • • • • • • • • • •				
* See the attached detailed Office action for a li	ist of the certified copies not r	eceived.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Su	ımmary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date ormal Patent Application (PTO-152)			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	6) Other:	·			

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1-6, drawn to a method of interconnecting a plurality of assmblies, classified in class 29, subclass 840.

 Claims 7-12, drawn to a cornerbond assembly, classified in class 174, subclass 260.

The inventions are distinct, each from the other because:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case there is no need to perform the active step of ... fixedly applying the at least one conductive ball to the junction in the Group II invention. That is the Group II invention could be constructed to have the conductive ball already in place during manufacture thereof. Also the Group II invention can be made by applying a conductive ball either to the first or second electronic assembly instead of the applying it at the junction.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with Eric Boyd (Reg # 43,509 on 18 April 2005 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-6. Affirmation of this election must be made by applicant in replying to this Office action. Claims 7-12 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

An Office Action on the merits of Group I (Claims 1-6) now follows.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al (Pat No. 4,495,546) hereinafter Nakamura et al.

Nakamura et al teach *inter alia* a method of connecting electronic assemblies which are assembled on a printed circuit board (Cf bottom of Col. 3) and which include conductive patterns (Cf. 6 and 13 or 6 and 17; also Col 4) to form an assembly by providing at least first and second assemblies (Cf. elements 11 on each side of Figures 7-9). Conductive material is applied (Cf. 18 or 22) in order to electrically interconnect conductive patterns. The language (Cf. Claim 1) ... whereby said first surface is

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angularly disposed to said second surface and said first terminal edge and said second terminal edge are substantially registered to form a junction. ... is read out of the claim i.e. given little or no weight inasmuch as this language is held to be merely suggestive as to the orientation of the first and second electronic assembly. Alternatively the first and second electronic assemblies are in fact angularly disposed and terminal edges of the first and second conductive patterns are substantially registered (as can been seen at least in Figs 4 and 6). As applied to Claims 3 and 5 it is held that since the circuit board 8 is a flexible circuit board it will be able to be bent into a variety of different angle relative to one another and therefore since applicant does not indicate any specific problem to be solved or specific purpose for the angle which is being claimed it is held that it would be mere design choice to dispose the first surface and the second surface with the recited angles. N.B. It is clearly see that the first and second surfaces are angularly disposed at an angle of greater than 90 degrees (Cf. Figs. 10 and 11).

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. J. Arbes whose telephone number is 571-272-4563. The examiner can normally be reached on M, T, R F from 8 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Vo, can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. J. Arbes
Primary Examiner
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